## Climate Change and Human Health Literature Portal



# The built environment, climate change, and health: Opportunities for co-benefits

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**Year:** 2008

**Journal:** American Journal of Preventive Medicine. 35 (5): 517-526

#### Abstract:

The earth's climate is changing, due largely to greenhouse gas emissions resulting from human activity. These human-generated gases derive in part from aspects of the built environment such as transportation systems and infrastructure, building construction and operation, and land-use planning. Transportation, the largest end-use consumer of energy, affects human health directly through air pollution and subsequent respiratory effects, as well as indirectly through physical activity behavior. Buildings contribute to climate change, influence transportation, and affect health through the materials utilized, decisions about sites, electricity and water usage, and landscape surroundings. Land use, forestry, and agriculture also contribute to climate change and affect health by increasing atmospheric levels of carbon dioxide, shaping the infrastructures for both transportation and buildings, and affecting access to green spaces. Vulnerable populations are disproportionately affected with regard to transportation, buildings, and land use, and are most at risk for experiencing the effects of climate change. Working across sectors to incorporate a health promotion approach in the design and development of built environment components may mitigate climate change, promote adaptation, and improve public health.

Source: http://dx.doi.org/10.1016/j.amepre.2008.08.017

### **Resource Description**

Exposure: M

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature, Unspecified Exposure

Air Pollution: Ozone, Particulate Matter

**Temperature:** Fluctuations

Geographic Feature: M

resource focuses on specific type of geography

Urban

Geographic Location: M

resource focuses on specific location

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Global or Unspecified

Health Co-Benefit/Co-Harm (Adaption/Mitigation): 

□

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: M

specification of health effect or disease related to climate change exposure

Cancer, Cardiovascular Effect, Developmental Effect, Diabetes/Obesity, Respiratory Effect

**Developmental Effect:** Reproductive

Respiratory Effect: Asthma, Chronic Obstructive Pulmonary Disease

Intervention: M

strategy to prepare for or reduce the impact of climate change on health

A focus of content

mitigation or adaptation strategy is a focus of resource

Adaptation, Mitigation

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Children, Elderly, Low Socioeconomic Status

Resource Type: **№** 

format or standard characteristic of resource

Review

Timescale: M

time period studied

Time Scale Unspecified